

# The Internet That We Want(ed)?

**Roger Clarke**

**Xamax Consultancy, Canberra**

Visiting Professor in Computer Science, ANU  
and in Cyberspace Law & Policy, UNSW

*Secretary, Internet Society of Australia*

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<http://www.rogerclarke.com/II/RFF-15 {.html, .ppt}>

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# Things Wanted and Got

## Consumer Marketers

- Channels to Consumers
- Market Reach
- Conversion of the Web from Consumer-Pull to Server-Push
- (Pseudo-)Consents from Consumers to enable prettymuch anything
- Freedom from Regulators

## Governments

- Cheaper Service Delivery
- Cost Transfer to Clients

## Consumers

- Access
- Excitement

## Organised Crime

- Good-Enough Obfuscation

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# Things Not Wanted But Got

## Moral Minorities

- Content that upsets them

## Enforcers

- Good-Enough Obfuscation
- Good-Enough Nymity

## Copyright-Dependent Corps

- Content Usage that upsets them

## Organised Crime

- Breakable Obfuscation
- Breakable Nymity

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# Things Not Wanted But Got The User Perspective

## Service-Provider Abuse

- Data Exploitation
- Behaviour Manipulation
- Lost Protections
- Powerless Regulators

## Criminal Abuse

- Device Exploitation
- Data Exploitation

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## How the World Sees the Internet

Services	The Web
Application Protocols	http
Carrier Protocols	TCP
	IP
Information Infrastructure	Wires, and Not-Wires

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## The Internet Somewhat More Realistically

Services	The Web	Other Services	Other People Services	Services for Things (IOT)
Application Protocols	http	Other Protocols	Other Protocols	Other Protocols
Carrier Protocols	TCP		UDP	
	IP			
Information Infrastructure	Wires, and Not-Wires			

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## 'Look What They've Done to My Web Ma!'

Services	Web 2.0	Other Services	Other People Services	Services for Things (IOT)
Application Protocols	Javascript, cookies, Java, web-bugs, XSLT, Flash cookies, http extended, Drive-By Downloads, HTML5, ...	Other Protocols	Other Protocols	Other Protocols
Carrier Protocols	TCP		UDP	
	IP			
Information Infrastructure	Wires, and Not-Wires			

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## 'Look What They've Done to My Security Ma!'

- 'Privacy by Design' (PbD) ????
- **Insecurity by Design (IbD)**
- Consumer Devices are designed to be open to exploitation, for the benefit of marketers
- Then came BYOD
- So Consumer Device Insecurity is invited by organisations inside their firewalls

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<http://www.rogerclarke.com/EC/SSACS.html#SSC>

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## Users Things Not Wanted But Got

### Service-Provider Abuse

- Data Exploitation
- Behaviour Manipulation
- Lost Protections
- Powerless Regulators

### Criminal Abuse

- Device Exploitation
- Data Exploitation

### Government Abuse

- Ubiquitous e-Surveillance

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George Brandis explains metadata

#auspol



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[https://twitter.com/the\\_shovel\\_/status/497519722984792064](https://twitter.com/the_shovel_/status/497519722984792064)

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**EFF** ELECTRONIC FRONTIER FOUNDATION  
DEFENDING YOUR RIGHTS IN THE DIGITAL WORLD

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**HTTPS Everywhere**

HTTPS Everywhere is a Firefox, Chrome, and Opera extension that encrypts your communications with many major websites, making your browsing more secure. **Encrypt the web: Install HTTPS Everywhere today.**

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<https://www.eff.org/Https-everywhere>

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**IAB** Internet Architecture Board

Home About Activities Documents Liaisons Appeals

← Reappointment of Lars Eggert as IRTF Chair IAB Seeks Feedback on ICANN Technical Liaison Group Candidates

**IAB Statement on Internet Confidentiality**

Posted on November 14, 2014 by cindy









The IAB urges protocol designers to design for confidential operation by default. We strongly encourage developers to include encryption in their implementations, and to make them encrypted by default. We similarly encourage network and service operators to deploy encryption where it is not yet deployed, and we urge firewall policy administrators to permit encrypted traffic.

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<https://www.iab.org/2014/11/14/iab-statement-on-internet-confidentiality/>

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Mobile	
	Android
	iOS
Computer	
	BSD
	GNU/Linux
	OS X
	Windows
Network	
	Routers
	Servers

## PRISM BREAK

[Protocols](#) [About](#)

Opt out of global data surveillance programs like [PRISM](#), [XKeyscore](#) and [Tempora](#).

Help make mass surveillance of entire populations uneconomical! We all have a right to privacy, which you can exercise today by encrypting your communications and ending your reliance on proprietary services.

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<https://prism-break.org/en/>

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SecureDrop is an open-source whistleblower submission system that media organizations can install to securely accept documents from anonymous sources. It was originally coded by the late Aaron Swartz and is now managed by Freedom of the Press Foundation. For more information, you can go [here](#).

theguardian



A way of sharing stories with us  
Securely & Confidentially

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<https://freedom.press/securedrop>  
<https://securedrop.theguardian.com/>

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blackphone Phone

## Introducing PrivatOS 1.1

In the Age of BYOD, privacy is essential to protecting your business infrastructure. PrivatOS 1.1 puts privacy in the hands of you and your enterprise, without any sacrifice to your productivity.

### Silent Phone

Makes private calls and video conferences more secure with an encrypted peer-to-peer VoIP service that operate worldwide with HD clarity over 3G, 4G or WiFi networks.

### Silent Text

Automatically encrypt your text messages. Includes Burn functionality, which destroys selected messages.

### Silent Contacts

Safeguard your contacts and leads by only providing you with access. Silent contact easily imports your address book with automatic encryption and password protection.

## Silent World

Silent World is a calling plan that provides you with enhanced security and flexibility on your mobile device. Simply buy minutes to make or receive calls between Silent Phone and regular mobile and landline numbers. Silent World's crystal-clear VOIP

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<https://silentcircle.com/>  
<https://blackphone.ch/silent-suite/>

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Power to The People  
Encryption Makes the World Better

ESCAPE THE INTERNET™



## No rest for the Wickr: Turnbull's alternative to 'insecure' SMS

Although he's leading the charge for data retention, Malcolm Turnbull has argued that SMS is "insecure" and he prefers over-the-top messaging services -- services that won't be a part of the new laws.

by [Claire Reilly](#) @reillystyley / 3 March 2015, 2:23 pm AEDT

Funnily enough, talk of his use of Wickr has seen a surge in people downloading it. Data from app analytics company App Annie shows the number of downloads in Australia surged in recent days, causing its ranking to go from 546th overall in Apple's App Store early Monday to 76th at time of writing on Tuesday.

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<http://www.cnet.com/au/news/turnbull-says-over-the-top-messaging-superior-to-insecure-sms-whatsapp-wickr/>  
<http://www.smh.com.au/digital-life/consumer-security/minister-for-encryption-metadata-avoidance-app-wickr-shoots-to-top-of-charts-after-malcolm-turnbull-revealed-as-a-fan-20150303-13tgxy.html>

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## Responses to Insecurity

### Message Obfuscation

- EFF's 'HTTPS Everywhere'
- IAB/IETF Encryption as Default
- BlackPhone / PrivatOS / SilentSpace
- Wickr IM

### Identity Obfuscation

- PRISM-Break.org
- SecureDrop, GlobaLeaks

### Traffic and Social Network Obfuscation

- Tor

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## Future Internetworking After The-Internet-As-We-Knew-It

Services	Many Services
Application Protocols	Many Protocols
Carrier Protocols	TCP, UDP and Alternatives esp. Virtual P2P
Information Infrastructure	IP versions, and Alternatives
	Wires, and Not-Wires <b>Not all controlled by Corporations</b> e.g. Mesh Architectures / Physical P2P

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